

SKANSKA

Facts about Skanska:

Skanska was founded in 1887 and started by manufacturing cement products. It quickly diversified into a construction company and within 10 years the company received its first international order. Skanska has played a key-role in building up Sweden's infrastructure including roads, power stations and housing.

Skanska stands for technical know-how and competence. The ability to apply these skills to new areas enables us to produce the innovation that our customers demand. This is the basis of long-term customer relationships. Skanska operates within the whole value-circle, from small-scale building projects to total responsibility in meeting customers' long-term needs within construction-related services.

For more information, visit www.skanska.com.

„The new architecture is a good compromise between having native C# code and preserving all our business logic and complex GUI that was built over many years. Our SAL developers found their way around the new code easily and embraced the new .NET architecture at the same time. Working with the new .NET projects is a win-win situation and, knowing the kind of problems we found after the conversion, the only feasible approach to automated porting.” - Mikael Stom, Enterprise IT Architect – Skanska Sweden AB.”

Skanska IT Solutions completes the migration of SPIK to Microsoft® .NET

Skanska IT was able to successfully migrate their project management system, named SPIK, to Microsoft® .NET in a short period of time using Ice Tea Group's technology and services. SPIK is currently deployed to over 2,000 users. Now it's fully .NET and C#!

The Problem

Skanska IT needed to upgrade their project management system to a new technology to ensure that the application (SPIK) that was built and extended over the past 10 years could survive for the foreseeable future.

True automated porting was identified as the most viable solution very early on, even before The Porting Project was ready for the market.

"We wanted .NET and we wanted it fast. We knew from the beginning that a full manual rewrite or an incomplete porting solution would have been impossible. ITG turned out to be the best choice for this project." said Johan Schjelderup, Product Manager, IT Services – Skanska Sweden AB.

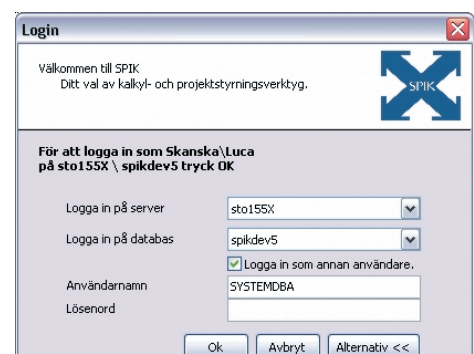
The Solution

After a successful Proof of Concept with a reduced version of the application to port, the SPIK team selected Ice Tea Group's technology, tools and services, known as The Porting Project™ (PPJ), to migrate their system to .NET.

Using Ice Porter™, the translation tool part of the PPJ, Ice Tea Group was able to translate the full application and all the reports to .NET in a short period of time achieving a conversion rate close to 99%. The SPIK team, with Ice Tea Group's support, quickly took ownership of the new project and technology and proceeded to finalize and improve their new code.

"Skanska's SPIK team was able to take advantage of the new architecture very quickly and to split the project into a highly modular system early on. The whole team was also able to take full ownership of the ported application and technology in a very short time and have performed the finalization phase extremely well. I have enjoyed their collaboration and have found their input valuable also to improve our own technology."

said Gianluca Pivato, Ice Tea Group's Chief Software Architect.



The screenshot shows a Windows-style login dialog box titled "Login". The text inside reads: "Välkommen till SPIK. Ditt val av kalkyl- och projektstyrningsverktyg." There is a logo for SPIK in the top right corner. Below this, it says: "För att logga in som Skanska\Luca på sto155X \ spikdev5 tryck OK". The form contains the following fields: "Logga in på server" with a dropdown menu showing "sto155X"; "Logga in på databas" with a dropdown menu showing "spikdev5"; a checked checkbox labeled "Logga in som annan användare."; "Användarnamn" with the text "SYSTEMDBA"; and "Lösenord" with an empty text box. At the bottom, there are three buttons: "Ok", "Avbryt", and "Alternativ <<".

The Project

The SPIK original application consisted of single executable with over 12,500 controls, 500 forms, 11,000 functions and 250 reports. It used a sophisticated browser-like GUI built using a complex system of nested forms and splitters, and several other enhancements from the library.

Thanks to the partitioning work done by the SPIK team, and to Ice Porter™ technology, the ported system now relies on I4 .NET projects which allows for targeted updates and for a flexible and modular deployment of application's features.

The major benefits of the new architecture can be summarized as:

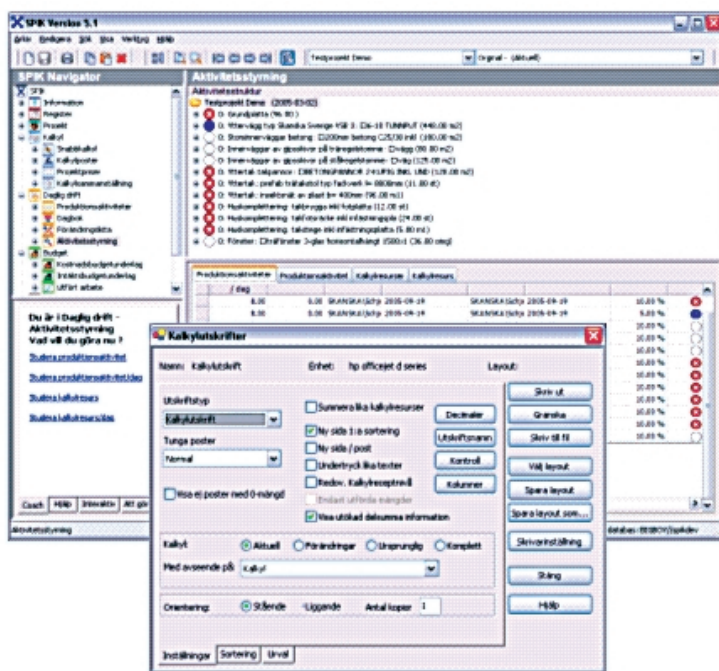
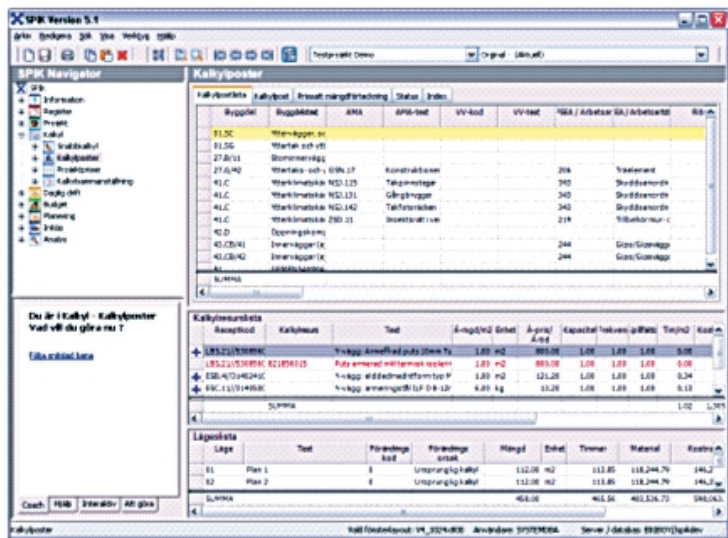
- Standard technology
- Fast native ADO.NET drivers
- Simplified deployment
- Modularization
- New integration possibilities
- Extensibility using plug-ins

"Skanska IT was an early adopter of our porting services, and we are very pleased that the project is a success. The excellent collaboration with Skanska's developers has also allowed us to improve our technology even further," said Carsten B. Nielsen Ice Tea Group's Executive Manager.

The new SPIK.NET has been deployed to over 2,000 users, double the pre-conversion figure, to several organizations within the Skanska Group. It is now a native .NET 2.0 application connecting to SQLServer® 2005 and Oracle® using fast and native ADO.NET drivers. All the converted reports are running using Crystal Reports XI for .NET.

About The Porting Project

The Porting Project is a collaborative effort of Ice Tea Group, fecher and a worldwide network of experienced Partners. To find out more about the Porting Project visit www.iceteagroup.com



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